

CLAIMS

Having thus described our invention, what we claim new and desire to secure by Letters Patent is as follows:

- 1 1. A computer implemented method of visually and audibly navigating fields
2 within a form presented on a multi-modal browser, comprising the steps of:
3 providing to the multi-modal browser a form having one or more fields
4 requiring user supplied information;
5 prompting by the multi-modal browser a user to fill in a form field by
6 verbal or tactile interaction, or a combination of verbal and tactile interaction;
7 and
8 moving to another form field requiring user provided input either after
9 a current form field has been filled in by the user or the user selects by verbal
10 or tactile interaction another form field.

- 1 2. The computer implemented method of visually and audibly navigating
2 fields within a form presented on a multi-modal browser recited in claim 1,
3 further comprising the step of exiting the form after the user has supplied
4 input for all required fields.

- 1 3. The computer implemented method of visually and audibly navigating
2 fields within a form presented on a multi-modal browser as recited in claim 1,
3 wherein the step of prompting is performed by reading aloud to the user a
4 heading of a form field to be filled in.

- 1 4. The computer implemented method of visually and audibly navigating
2 fields within a form presented on a multi-modal browser as recited in claim 3,

3 further comprising the step of audibly presenting to the user any information
4 that is contained in the form field.

1 5. The computer implemented method of visually and audibly navigating
2 fields within a form presented on a multi-modal browser as recited in claim 3,
3 further comprising the step of typing into the form field words responsively
4 spoken by the user.

1 6. The computer implemented method of visually and audibly navigating
2 fields within a form presented on a multi-modal browser as recited in claim 1,
3 wherein during the moving step the browser responds to one or more verbal
4 commands provided the user.

1 7. The computer implemented method of visually and audibly navigating
2 fields within a form presented on a multi-modal browser as recited in claim 6,
3 wherein the one or more verbal commands are selected from the group
4 including:

5 a command that directs the browser to skip from a current field to
6 another field;

7 a command that directs the browser to review the form to ensure that
8 all fields contain information;

9 a command that submits the form to an application program for
10 processing;

11 a command that cancels, or erases, information currently within a field;
12 and

13 a command that directs the browser to clear the form and reprocess it.

1 8. The computer implemented method of visually and audibly navigating
2 fields within a form presented on a multi-modal browser as recited in claim 1,
3 wherein during the moving step a default mode for moving is to read the form
4 fields in an order in which they are presented on the form.

1 9. The computer implemented method of visually and audibly navigating
2 fields within a form presented on a multi-modal browser as recited in claim 1,
3 further comprising the step of prompting the user for input by the browser
4 after a specified time period if the user has not responded to an earlier prompt.

1 10. The computer implemented method of visually and audibly navigating
2 fields within a form presented on a multi-modal browser as recited in claim 1,
3 wherein an audio queue controls the prompting, moving and exiting steps.

1 11. The computer implemented method of visually and audibly navigating
2 fields within a form presented on a multi-modal browser as recited in claim
3 10, wherein the audio queue contains objects that contain text to be spoken.

1 12. The computer implemented method of visually and audibly navigating
2 fields within a form presented on a multi-modal browser as recited in claim
3 10, wherein the audio queue contains objects that mark an entry to and an exit
4 from the form.

1 13. The computer implemented method of visually and audibly navigating
2 fields within a form presented on a multi-modal browser as recited in claim
3 10, wherein the audio queue contains objects that mark an entry to and an exit
4 from a form element.

- 1 14. The computer implemented method of visually and audibly navigating
- 2 fields within a form presented on a multi-modal browser as recited in claim
- 3 10, wherein the audio queue contains objects that request an interruptible
- 4 pause to the audio presentation.

- 1 15. The computer implemented method of visually and audibly navigating
- 2 fields within a form presented on a multi-modal browser as recited in claim
- 3 10, wherein the audio queue contains objects that request a repositioning of
- 4 the audio queue.

- 1 16. The computer implemented method of visually and audibly navigating
- 2 fields within a form presented on a multi-modal browser as recited in claim
- 3 15, wherein the repositioning includes the ability to loop back and repeat part
- 4 of the audio queue.